

its last developments. These last possibilities include array operations, pointers, a new form for the loops, dynamic storage allocation, recursivity, among others.

(CB)

**Kehe Zhu, *Operator Theory in Function Spaces*. Marcel Dekker, New York, 1990. 258 pp., ISBN 0-8247-8411-1.**

The aim of this book is to provide a treatment of Toeplitz, Hankel and composition operators on the Bergman and Hardy spaces of the open unit disc of the complex plane. Its main emphasis is on the size estimates of these operators: boundedness, compactness, and membership in the Schatten classes. The book is intended for research mathematicians and graduate students in complex analysis and operator theory.

(CB)

**B.R. Gelbaum and J.M.H. Olmsted, *Theorems and Counterexamples in Mathematics*. Springer, Berlin, 1990. 345 pp., DM84, ISBN 3-540-97342-7.**

This book presents the most important theorems in algebra, analysis, geometry and topology, probability theory and foundations of mathematics. They are all illustrated by several examples and exercises. It was already a very good idea to gather such material into one single volume. But the book is made still more valuable and useful by the counterexamples it contains. I always found counterexamples even more interesting and illuminating than examples and this book provides a collection of them. This book will be very useful to every student in mathematics and even to every mathematician.

(CB)

**S. Ruscheweyh et al. (eds.), *Computational Methods and Function Theory*, Lecture Notes in Mathematics 1435. Springer, Berlin, 1990. 211 pp., DM37, ISBN 3-540-52768-0.**

This volume contains the papers presented at an international conference held in Valparaiso in March 1989. They are devoted to applied and computational complex analysis including orthogonal polynomials, continued fractions, conformal mapping and various approximation problems. They provide an interesting view of the various questions which are actually under interest in the field.

(CB)

**E.L. Allgower and K. Georg, *Numerical Continuation Methods*. Springer, Berlin, 1990. 388 pp., DM128, ISBN 3-540-12760-7.**

Numerical continuation methods of predictor-corrector and piecewise-linear types are very important in the numerical solution of nonlinear systems of equations. This book provides an